Table 15: Expression changes in oxidative phosphorylation for the gastric bypass study. Alphabetized list of reactions in oxidative phosphorylation (as defined by Recon 1). Ratio is the average log10 expression ratio (n=3) of post-/pregene expression measurements (see text for details). Negative ratios (green) indicate a decrease in expression postsurgery, whereas positive ratios indicate an increase (red). Values denoted with "n/a" indicate that gene expression values were unavailable, or that expression ratios conflicted at the probe or patient levels.

Reaction	Putative function	Locus	Ratio
ATPS4m	ATP synthase (four protons for one ATP)	517.1	-0.111
ATPS4m	ATP synthase (four protons for one ATP)	514.1	-0.104
ATPS4m	ATP synthase (four protons for one ATP)	518.1	-0.102
ATPS4m	ATP synthase (four protons for one ATP)	522.1	-0.093
ATPS4m	ATP synthase (four protons for one ATP)	4905.1	-0.08
ATPS4m	ATP synthase (four protons for one ATP)	516.1	-0.057
ATPS4m	ATP synthase (four protons for one ATP)	521.1	-0.042
ATPS4m	ATP synthase (four protons for one ATP)	509.1	-0.04
ATPS4m	ATP synthase (four protons for one ATP)	10632.1	0.201
ATPS4m	ATP synthase (four protons for one ATP)	513.1	n/a
ATPS4m	ATP synthase (four protons for one ATP)	515.3	n/a
ATPS4m	ATP synthase (four protons for one ATP)	513.2	n/a
ATPS4m	ATP synthase (four protons for one ATP)	9551.1	n/a
ATPS4m	ATP synthase (four protons for one ATP)	522.5	n/a
ATPS4m	ATP synthase (four protons for one ATP)	522.4	n/a
ATPS4m	ATP synthase (four protons for one ATP)	506.1	n/a
ATPS4m	ATP synthase (four protons for one ATP)	515.2	n/a
ATPS4m	ATP synthase (four protons for one ATP)	509.2	n/a
ATPS4m	ATP synthase (four protons for one ATP)	522.2	n/a
ATPS4m	ATP synthase (four protons for one ATP)	518.2	n/a
ATPS4m	ATP synthase (four protons for one ATP)	514.2	n/a
ATPS4m	ATP synthase (four protons for one ATP)	522.3	n/a
ATPS4m	ATP synthase (four protons for one ATP)	517.2	n/a
ATPS4m	ATP synthase (four protons for one ATP)	518.3	n/a
ATPS4m	ATP synthase (four protons for one ATP)	10476.2	n/a
ATPS4m	ATP synthase (four protons for one ATP)	9551.3	n/a
ATPS4m	ATP synthase (four protons for one ATP)	515.1	n/a
ATPS4m	ATP synthase (four protons for one ATP)	498.1	n/a
ATPS4m	ATP synthase (four protons for one ATP)	10476.1	n/a
ATPS4m	ATP synthase (four protons for one ATP)	498.2	n/a
ATPS4m	ATP synthase (four protons for one ATP)	516.2	n/a
ATPS4m	ATP synthase (four protons for one ATP)	498.3	n/a
ATPS4m	ATP synthase (four protons for one ATP)	9551.2	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	1329.1	-0.218
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	1339.1	-0.193
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	1349.1	-0.073
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	1327.1	-0.03
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	9167.1	0.045
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	1347.1	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	1345.1	n/a

Reaction	Putative function	Locus	Ratio
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	4512.1	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	1340.1	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	4514.1	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	84701.1	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	1346.1	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	1350.1	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	1337.1	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	170712.1	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	1351.1	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	4513.1	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	341947.1	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	125965.1	n/a
	cytochrome c oxidase, mitochondrial		
CYOOm3	Complex IV	9377.1	n/a
	ubiquinol-6 cytochrome c reductase,		
CYOR-u10m	Complex III	7381.1	-0.242
	ubiquinol-6 cytochrome c reductase,		
CYOR-u10m	Complex III	29796.1	-0.102
	ubiquinol-6 cytochrome c reductase,		
CYOR-u10m	Complex III	10975.1	n/a
	ubiquinol-6 cytochrome c reductase,		
CYOR-u10m	Complex III	7388.1	n/a
	ubiquinol-6 cytochrome c reductase,		
CYOR-u10m	Complex III	1537.1	n/a
	ubiquinol-6 cytochrome c reductase,		
CYOR-u10m	Complex III	4519.1	n/a
	ubiquinol-6 cytochrome c reductase,		
CYOR-u10m	Complex III	29796.2	n/a
	ubiquinol-6 cytochrome c reductase,		
CYOR-u10m	Complex III	7384.1	n/a
	ubiquinol-6 cytochrome c reductase,		
CYOR-u10m	Complex III	7385.1	n/a
	ubiquinol-6 cytochrome c reductase,		
CYOR-u10m	Complex III	27089.1	n/a
1	ubiquinol-6 cytochrome c reductase,		
CYOR-u10m	Complex III	7386.1	n/a

Reaction	Putative function	Locus	Ratio
NADH2-u10m	NADH dehydrogenase, mitochondrial	4728.1	-0.219
NADH2-u10m	NADH dehydrogenase, mitochondrial	51079.1	-0.176
NADH2-u10m	NADH dehydrogenase, mitochondrial	7991.1	-0.133
NADH2-u10m	NADH dehydrogenase, mitochondrial	4729.1	-0.129
	NADH dehydrogenase, mitochondrial	4696.1	-0.101
	NADH dehydrogenase, mitochondrial	4694.1	-0.101
	NADH dehydrogenase, mitochondrial	4717.1	-0.091
	NADH dehydrogenase, mitochondrial	4719.1	-0.087
	NADH dehydrogenase, mitochondrial	4718.1	-0.086
	NADH dehydrogenase, mitochondrial	4709.1	-0.076
	NADH dehydrogenase, mitochondrial	4708.1	-0.073
	NADH dehydrogenase, mitochondrial	4702.1	-0.064
	NADH dehydrogenase, mitochondrial	4714.1	-0.055
	NADH dehydrogenase, mitochondrial	4711.1	-0.053
	NADH dehydrogenase, mitochondrial	4713.1	0.118
	NADH dehydrogenase, mitochondrial	7991.2	n/a
	NADH dehydrogenase, mitochondrial	4712.1	n/a
	NADH dehydrogenase, mitochondrial	4697.1	n/a
	NADH dehydrogenase, mitochondrial	4695.1	n/a
	NADH dehydrogenase, mitochondrial	4725.1	n/a
	NADH dehydrogenase, mitochondrial	4716.1	n/a
	NADH dehydrogenase, mitochondrial	4698.1	n/a
	NADH dehydrogenase, mitochondrial	4720.1	n/a
	NADH dehydrogenase, mitochondrial	4538.1	n/a
	NADH dehydrogenase, mitochondrial	126328.1	n/a
	NADH dehydrogenase, mitochondrial	4710.1	n/a
	NADH dehydrogenase, mitochondrial	4539.1	n/a
	NADH dehydrogenase, mitochondrial	4535.1	n/a
	NADH dehydrogenase, mitochondrial	4704.1	n/a
	NADH dehydrogenase, mitochondrial	4701.1	n/a
	NADH dehydrogenase, mitochondrial	4724.1	n/a
	NADH dehydrogenase, mitochondrial	4541.1	n/a
	NADH dehydrogenase, mitochondrial	4722.1	n/a
	NADH dehydrogenase, mitochondrial	4700.1	n/a
	NADH dehydrogenase, mitochondrial	4726.1	n/a
	NADH dehydrogenase, mitochondrial	4723.1	n/a
	NADH dehydrogenase, mitochondrial	4536.1	n/a
	NADH dehydrogenase, mitochondrial	4715.1	n/a
	NADH dehydrogenase, mitochondrial	374291.1	n/a
	NADH dehydrogenase, mitochondrial	4731.1	n/a
	NADH dehydrogenase, mitochondrial	55967.1	n/a
	NADH dehydrogenase, mitochondrial	4537.1	n/a
	NADH dehydrogenase, mitochondrial	4706.1	n/a
	NADH dehydrogenase, mitochondrial	4712.2	n/a
	NADH dehydrogenase, mitochondrial	4707.1	n/a
	NADH dehydrogenase, mitochondrial	4705.1	n/a
	NADH dehydrogenase, mitochondrial	4540.1	n/a
NADH2-U10m i			

Reaction	Putative function	Locus	Ratio
PPA	inorganic diphosphatase	5464.1	n/a
PPAm	inorganic diphosphatase	27068.1	-0.106
PPAm	inorganic diphosphatase	27068.2	n/a
PPAm	inorganic diphosphatase	27068.4	n/a
PPAm	inorganic diphosphatase	27068.3	n/a